

Title (en)  
Trench wall cutting apparatus and method for building a diaphragm wall in the ground

Title (de)  
Schlitzwandfräse und Verfahren zum Herstellen einer Schlitzwand im Boden

Title (fr)  
Fraiseuse à rideau souterrain et procédé pour creuser des tranchées dans le sol

Publication  
**EP 1752583 A3 20080402 (DE)**

Application  
**EP 06024531 A 20040115**

Priority  
• EP 04000766 A 20040115  
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Abstract (en)  
[origin: EP1452645A1] A method for preparing underground slit walls has a slitting head (10) comprising a support frame (10) with one or two rotating cutting discs (12, 12') lowered into the ground by a telescopic support. The slitting head removes materials from under the head and the spoil is directed to the void above the head. At the same time a binding fluid is injected into the spoil via a duct (41) terminating at the slitting head. The slit is cut by repeated raising and lowering of the slitting head, which mixes the setting fluid with the spoil. The spoil and setting fluid set eventually to form the slit wall.

IPC 8 full level  
**E02D 17/13** (2006.01); **E02F 5/08** (2006.01); **E02D 5/18** (2006.01); **E02D 5/20** (2006.01); **E02D 5/46** (2006.01); **E02F 3/20** (2006.01); **E02F 5/02** (2006.01); **E21B 10/08** (2006.01); **E21B 17/07** (2006.01)

CPC (source: EP KR US)  
**E02D 17/13** (2013.01 - EP US); **E02F 3/205** (2013.01 - EP US); **E21B 10/08** (2013.01 - KR)

Citation (search report)  
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• [XD] JP H09273150 A 19971021 - OHBAYASHI CORP  
• [A] DE 1634262 B1 19700924 - BADE & CO GMBH  
• [A] EP 0730064 A1 19960904 - SOL COMP DU [FR]  
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